

**Office of the Executive Engineer
Savar-Keraniganj Wellfield Plant
Dhaka WASA**

Name of the Work: Construction of main gate, fencing and shifting of different sign board at main entrance of IRP-1.

Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
1	civil	02.1.2	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract. Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead	cum	12.38	168.081	2080.002
2	civil	24.4.1	Single layer brick flat soling in road work with first class or picked jhama bricks as per alignment, camber and grade including filling joints with sand (F.M. 0.80) etc. complete including cost of all materials and accepted by the Engineer-in-charge.	sqm	49.50	552.541	27350.780
3	civil	03.5.1	Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M) Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2.	cum	12.38	8885.741	109961.045
4	civil	06.15.1	Supplying, fitting and fixing 20mm to 25mm thick machine made cement pavement tiles having minimum compressive strength of 27 MPa, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and making the joints carefully in true straight line including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor Pavement tiles of size 300 mm x 300 mm	sqm	49.50	1189.651	58887.725

Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
5	civil	m/r	RCC-Gpost: Providing, fitting and fixing 200mm dia round MS Guide Post 1.00m long as per standard drawing with filling Cement Concrete (1:2:4) with 20mm down well graded brick chips casting, curing for requisite period, including two coats of painting with best quality synthetic enamel paint over a prime coat of approved brand of different colour and grade to form 6 nos. horizontal alternate bands in white/yellow and red to 90 cm length standing up above ground, making hole in ground of 800mm depth and 300mm minimum dia, fixing the guard posts in the same holes and repacking the earth properly so as to keep the guard posts standing properly erect in correct position true to line and length including carriage of Guide Post with due care to the site including loading into the truck and unloading at site complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	nos	7.00	5000.001	35000.007
6	civil	02.10.1	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge.	cum	12.375	1087.931	13463.146
7	civil	07.4.2	Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having maximum water cement ratio = 0.40 and minimum $f_{cr} = 40.5$ MPa, satisfying a specified compressive strength $f_c = 32$ MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa)/ ASTM-C 150 Type - I, and adding approved high range water reducing admixture of complying specific type (generally be Type-G) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), including conducting necessary tests, screening sand through proper sieves, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). Padestal, column, column capital, lift wall and RCC wall up to ground floor	cum	2.16	14503.001	31326.482

Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
8	civil	07.12.4	Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 16 BWG, angles of minimum size 40 mm x 40 mm x 5 mm, flat bars etc.) and removal of form for: Pedestal, column, column capital, lift wall and wall up to ground floor	sqm	14.40	522.001	7516.814
9	civil	08.1.2	Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.	kg	206.14	100.001	20613.806
10	civil	M/R	Existing Sign board shifting to be placed at a main entry of SKWP including text layout, logo, safety instructions, project information with security light etc to the Engineer-in-charge for approval which will be positioned as directed by the Engineer-in-charge.	nos	3	10000.001	30000.003
11	civil	M/R	Existing Sign board painting -synthetic enamel paint of best quality and colour having high water resistance, high bondability, flexibility property; using specified brand thinner applying to metallic or wooden surface by brush/roller/spray in two coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge.	nos	3	12000.001	36000.003
12	civil	M/R	Existing Sign board repair and refitting after minor repair (including cost of material) etc. All completed as per direction of Engineer- in charge.	nos	3	7500.001	22500.003
13	Elec.	08.1.2	Concealed conduit wiring with the following PVC insulated stranded cable (BYA) & PVC insulated Green / Yellow bi-colour ECC wire (BYA) through PVC conduit of reputed manufacturer complete with 18 SwC (P sheet pull box with 3mm thick ebonite sheet cover, fixing materials, other accessories etc as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure- I. The work shall be carried out as per direction & approval of the Engineer In Charge. 1C-2X2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16mm having wall thickness of 1.5 mm	m	240.00	279.001	66960.240

Item No.	Group	Item Code.	Description of Items of Works	Unit	Quantity	Unit rates or prices	Amount
14	Elec.	6.9.3.2	Supply & fixing LED flood light fitting of following specifications: 100 W Gloria Cat no-GLFL-902 Energy+ cat no-EPFDL-17001 (100W) Cosmo cat no BDTCL-LFDL-02 Adex-AD-FLE100W830 Asha cat No-ACS-LFL-2155- (100W) or equivalent.	nos	5.000	5976.001	29880.005
15	civil	08.1.2	Dismantling & site cleaning, washing, brooming and taking away of debris from the site during and or after the completion of the repair works in all heights by truck or by any other means as per direction of the engineer-in-charge.	L/S	1.000	5000.001	5000.001
Total:							496540.062
(In Word: Four Lakh Ninety Six Thousand Five Hundred Forty Point Zero Six Two)							

Sub-Assistant Engineer
SKWP, Dhaka WASA

মোঃ সুমন আহমেদ
উপ-সহকারী প্রকৌশলী
পাভার-কোরামিঞ্চ ওয়েলফিট প্রক্ট, ঢাকা ওয়াসা

Assistant Engineer
SKWP, Dhaka WASA

Executive Engineer
SKWP, Dhaka WASA